

Product datasheet for **MC224124**

Abcb1b (NM_011075) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Abcb1b (NM_011075) Mouse Untagged Clone
Tag: Tag Free
Symbol: Abcb1b
Synonyms: Abcb1; mdr; Mdr1; Mdr1b; Pgy-1; Pgy1
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC224124 representing NM_011075
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGGAGTTTGAAGAGAACCTTAAGGGAAGAGCAGACAAGAAGCTTCTCGAAGATGGGCAAAAAGAGTAAAA
AGGAGAAGAAAAGAAAAGAAACCTGCTGTTGGCGTATTTGGGATGTTTCGCTATGCAGATTGGCTGGACAA
GCTGTGCATGATTCTGGGAAGCTCTCGTCTATTATCCATGGAACATTACTTCCCCTCTTGATGCTGGTG
TTTGGAACATGACAGATAGTTTTACAAAAGCAGAAGCCAGTATTCTGCCAAGCATTACTAATCAAAGTG
GACCCAACAGTACTCTGATCATCAGCAACAGCAGTCTGGAGGAAGAGATGGCCATATACGCCCTACTATTA
CACCGGATTGGTGTGGTGTGCTCATAGTTGCCTACATCCAGGTTTCACTTTGGTGCCTGGCAGCTGGA
AGACAGATACACAAGATTAGGCAGAAGTTTTCCATGCTATAATGAATCAGGAGATAGGCTGGTTTGATG
TGCATGATGTTGGGGAGCTCAACACCCGGCTCACAGATGATGTCTCCAAAATTAATGACGGAATTGGTGA
CAAAATGGGATGTTTTTTCAGTCCATAACCACATTTTTAGCCGGTTTTATCATAGGATTTATAAGTGGT
TGGAAGCTAACCCCTGTCAATTTGGCTGTCAGCCCTCTATTGGATTGTCATCTGCTTTGGGCAAAGG
TATTGACTTCATTTACTAATAAGGAAGCTCCAGGCTTATGCAAAAGCTGGAGCAGTTGCTGAAGAAGTCTT
AGCAGCCATCAGAAGTGTGATTGCCTTTGGAGGACAACAGAAGGAAGTGAAGGTACAATAAAAAATTTA
GAAGAAGCTAAAAATGTTGGCATAAAGAAAGCTATCACAGCCAGCATTTGATAGGCATTGCCTACCTGT
TGGTCTATGCATCATATGCACTGGCATTCTGGTATGGGACATCCTTGGTCTCTCAAATGAATATTCTAT
TGGAGAAGTGCTTACTGTCTTCTCTATTTTGGTGGGACTTTTGTGTTGGGACTTTTGTGTTGGGACTTTT
ATAGAAGCCTTTGCAAACGCACGAGGGGCAGCCTTTGAAATCTTCAAGATAATTGATAACGAGCCAAGCA
TTGACAGCTTCTCAACAAAGGGTACAAACCAGACAGTATAATGGGAACTTAGAGTTTAAAAATGTTCA
CTTCAACTACCCATCGAGAAGCGAAGTTCAGATCTTGAAGGCCCTCAATCTGAAGGTGAAGAGCGGACAG
ACGGTGGCCCTGGTTGGCAACAGTGGCTGTGAAAAAGCACAACGTCCAGCTGATGCAGAGGCTCTACG
ACCCCCTGGAGGGCGTGGTCAAGTATCGACGGACAAGACATCAGAACCATCAATGTGAGGTATCTGAGGGA
GATCATTGGTGTGGTGAAGTCAAGAACCTGTGCTGTTTGCACCACGATCGCCGAGAACATTTCGCTATGGC
CGAGAAGATGTCACCATGGATGAGATTGAGAAAGCTGTCAAGGAAGCCAATGCCTATGACTTCATCATGA



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AACTGCCCCACCAATTTGACACCCTGGTTGGTGAGAGAGGGGCGCAGCTGAGTGGGGGACAGAAACAGAG
AATCGCCATTGCCCGGGCCCTGGTCCGCAATCCCAAGATCCTTTTGTGGACGAGGCCACCTCAGCCCTG
GATACAGAAAGTGAAGCTGTGGTGCAGGCCGACTGGATAAGGCTAGAGAAGGCCGGACCACCTTTGTA
TAGCTCATCGCTTGTCTACAGTTCGTAATGCTGACGTCATTGCTGGTTTTGATGGTGGTGCATTGTGGA
GCAAGGAAATCATGATGAGCTCATGAGAGAAAAGGCAATTTACTTCAAATTGTCATGACACAGACTAGA
GGAAATGAAATGAACCAGGAAATAATGCTTATGGATCCCAGAGTGACACTGATGCTTCTGAATGACTT
CAGAAGATCCAATCACCTTTAATAAGGAGATCAATTTACAGAAGTGCCACAGAAAGCAAGACCAAGA
GAGAAGACTTAGTATGAAAGAGGCTGTGGATGAAGATGTGCCTCTGGTTTCCTTTTGGCGGATCCTAAAT
CTAAATCTAAGTGAATGGCCTTATTTACTTGTGGCGTACTTTGCGCTGTATAAATGGGTGCATACAAC
CAGTGTGGCCATAGTATTTTCAAGGATTGTAGGGGTTTTTTCAAGAGATGATGACCATGAAACTAAACG
ACAGAATTGTAATTTGTTTTCCCTGTTCTTTCTGGTTATGGGGCTGATTTCTTTTGTACATATTTCTTT
CAGGGCTTACATTTGGCAAAGCCGGAGAGATCCTCACCAAGCGAGTCCGATACATGGTTTTCAAATCCA
TGCTGAGACAGGATATAAGCTGGTTCGATGACCATAAAGACAGCACTGGCTCACTGACCACAGGCTCGC
CAGTGATGCTTCTAGTGTTAAAGGGGCGATGGGCGCCAGGCTTGCTGTAGTTACCCAGAATGTAGCAAAC
CTCGGGACAGGAGTCATCTCTCCTTAGTCTATGGCTGGCAGCTGACACTTCTACTTGTAGTAATTATAC
CGCTCATTGTATTGGGCGGAATTAATGAAATGAAGCTGTTGTCTGGCCAAGCCTTGAAGGACAAGAAACA
GCTTGAGATCTCTGGGAAGATTGCTACAGAAGCAATTGAAAACCTCCGCACTATTGTCTCTTTGACTCGG
GAGCAGAAGTTTAAAACCATGTATGCCAGAGCTTGCAGGTACCATACAGAAATGCGATGAAGAAAGCAC
ACGTGTTTGGGATCACGTTCTCCTTACCAGGCCATGATGATTTTTCTTATGCTGCTTGTTCGGTT
CGGTGCCTACTTGGTGGCACAACAACCTCATGACTTTTAAAAATGTTATGTTGGTATTTTCTGCTGTTGTC
TTTGGTGCCATGGCAGCTGGGAATACTAGTTCATTTGCTCCTGACTATGCGAAAGCCAAAGTATCAGCAT
CTCATATCATCAGGATCATTGAGAAAACCCCTGAGATTGACAGCTACAGCACAGAGGGCTTGAAGCCTAC
TCTGTTAGAAGGAAATGTAATAATTAATGGAGTCCAGTTAACTATCCCACCCGACCAACATCCCAGTG
CTTCAGGGGCTGAGCCTCGAGGTGAAGAAGGGCCAGACGTTGGCCCTGGTGGGACAGTGGCTGTGGGA
AGAGCACAGTGGTCCAGCTGCTCGAGCGCTTCTACGACCCCATGGCTGGATCAGTGTCTAGATGGCAA
AGAAATAAAGCAACTGAATGTCCAGTGGCTCCGAGCTCACCTTGGCATTGTGCCAGGAGCCCATTCTC
TTTGACTGCAGCATTGCAGAGAACATCGCTATGGAGACAACAGCCGGGCCGTGCTCATGAGGAGATTG
TGAGGGCAGCCAAGGAGGCCAATCCACCAGTTCATCGACTCACTGCCTGATAAATAACAACACCAGAGT
AGGAGACAAAGGCACTCAGCTGTCGGTGGGAGAGCAGCGCATCGCCATCGCACGTGCCCTCGTCAGA
CAGCCTCACATTTACTTCTGGACGAAGCAACATCAGCTCTGGATACAGAAAGTAAAAGGTTGTCCAGG
AAGCGCTGGACAAGCCAGGGAAGGCCACCTGCATTGTGATCGCTCACCGCCTGTCCACCATCCAGAA
CGCGGACTTGATCGTGGTGATTGAGAACGGCAAAGTCAAGGAGCACGGCACCCACCAGCAGCTGCTGGCG
CAGAAGGGCATCTACTTCTCAATGGTCCAGGCTGGAGCAAAGCGCTCATGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-Mlul
ACCN: NM_011075
Insert Size: 3831 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in *E. coli* are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

RefSeq: [NM_011075.2](#), [NP_035205.1](#)

RefSeq Size: 4344 bp

RefSeq ORF: 3831 bp

Locus ID: 18669

UniProt ID: [P06795](#)

Cytogenetics: 5 3.43 cM

Gene Summary: The membrane-associated protein encoded by this gene is a member of the superfamily of ATP-binding cassette (ABC) transporters. ABC proteins transport various molecules across extra- and intra-cellular membranes. ABC genes are divided into seven distinct subfamilies (ABC1, MDR/TAP, MRP, ALD, OABP, GCN20, White). This protein is a member of the MDR/TAP subfamily. Members of the MDR/TAP subfamily are involved in multidrug resistance. This gene encodes a membrane glycoprotein which confers a multidrug-resistance phenotype. The protein encoded by the human gene is an ATP-dependent drug efflux pump for xenobiotic compounds which is responsible for decreased drug accumulation in multidrug-resistant cells and mediates the development of resistance to anticancer drugs. [provided by RefSeq, Jul 2008]